# Chewantha Jayasundera

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## EDUCATION

**City University of New York, Queens College** Class of 2023
Major: B.S. in Computer Science GPA: 3.4
**Courses**: *Databases, Data Structures, Analysis of Algorithms, Cloud Computing, NLP, Computer Vision, Internet and Web Technologies, ML for Image Processing*

## SKILLS

**Languages**: Java, C++, C#, Python, JavaScript, Shell, HTML, CSS, PHP, Bash, Powershell, SQL
**Tools**: AWS, GCP, Git, Node.js, .NET, Express, React, Kubernetes, Docker, MongoDB, GraphQL, PostgreSQL, Jira, UNIX
**Certifications:** AWS Certified Cloud Practitioner (CLF-C01)

## RELEVANT EXPERIENCE

**City of New York, HRA** November 2023 – Present
*Technical Business Analyst I* *New York City,* NY

- Spearheaded a team of seven IT technicians / operations-based staff to conduct User Acceptance Testing for a city-wide contract management system, ensuring optimal functionality and all requirements were met.
- Addressed software issues within internal tools utilized by APS, resolving tickets through ServiceNow.
- Designed and managed SQL-based databases to enhance internal workflow and foster interoperability with other City of New York agencies.

**Runwei** November 2022 – August 2023
*Backend Engineer* *New York City,* NY

- Led a team of five interns using Jira to develop a working prototype of the web application in two months.
- Ensured team progress with daily standups, and meeting with stakeholders monthly.
- Collaborated with stakeholders and business analysts to meet project requirements and devised a long-term development strategy.
- Developed Python web scraper that handled dynamic pagination, and variable page structures, giving 85% - 93% capture rate.
- Designed and deployed a scalable DynamoDB schema for grant data storage, reducing storage costs by 50% and boosting query speed by 20% compared to the previously envisioned storage solution.

**Rapido** February 2021 - March 2022
*Software Engineer* *New York City*, NY

- Developed Python-based ML algorithms, achieving 91% positive case prediction accuracy and a 64% reduction in false negatives.
- Developed the software to interface with sensors and UI for an all-in-one testing hardware system.
- Worked with graduate City College biology postdoctoral researchers to develop Python scripts to read and prepare sensor input for machine learning models.

**Malachite Group Ltd** August 2019 - November 2023
*In-house Technical Support* *Mineola*, NY

- Redesigned and built a new website for the company and increased user traffic to the site by 40%.
- Generated $2 million in leasing and property sale income through retail clients referred to through the company website.
- Increase the traffic of prospective commercial lessees by showcasing 200+ properties on the website.
- Carried out data analysis, using Python, on commercial/retail lessees to help management make decisions on property purchases.
- Coordinate with an off-site IT company to set up new workstations and help new employees get settled in.

## PROJECTS

- **Image Extractor 9000 – Windows Application**: Created a taskbar app to update the desktop wallpaper with automotive/stellar-related images periodically. *Tech Stack: C#, .NET.*
- **Gutenberg x Google - Literary Goal Tracker**: Built a web app to promote reading habits, syncing goals with calendars. Tech Stacks: *HTML/CSS, JavaScript, Google Calendar, and Gutenberg APIs.*
- **John's Fried Chicken - Online Food Ordering System**: Developed a Java-based web app for a fast-food chain, ensuring data integrity through socket programming. Hosted on Heroku. *Tech Stack: MongoDB, Java, Heroku, React*.
- **Flooring Icon Manager - Android App**: Created an Android app with shopping cart and inventory management for a tile retailer. *Tech Stack: Android, MongoDB, Node.js.*
- **DigitRekognizer - ML model on AWS:** Designed a LeNet-5 CNN on AWS SageMaker for the MINST dataset, optimizing execution with AWS EC2. *Tech Stack: AWS S3, AWS SageMaker, AWS EC2, Python.*
- **Happy Fish Project - Aquatic Ecosystem Automation**: Collaborated and developed an autonomous water monitoring system for 30+ fish tanks in a marine biology research lab, integrated with automated lighting. *Tech Stack: Shell, Python, C, Arduino, Neptune APEX.*